

Prevention of Boiler Pressure Parts Failure

You can prevent only
those you can predict



Conducted by
INDIA BOILER DOT COM
promoting a favourable environment for power plants

Date : 29th, 30th & 31st May 2024
Venue : Hotel Grand Mercure
Vadodara

Introduction:

Boiler pressure parts failures are the leading cause of forced outage of power and utility plants.

A tube failure usually occurs at the most inappropriate time, resulting lost production and lost revenue and in most cases, causing more damage to the system.

But the tubes don't just fail suddenly. In 99.99% cases, an imminent tube failure would start giving indication long before it happens. So, instead of waiting for a tube to fail and then analyzing what went wrong, why not focus on preventing the failure altogether??

Need of seamless interface between Operation, Inspection & Maintenance:

You can prevent only those you can predict. To predict, one must detect irregularities and interpret tell-tale signs promptly. Furthermore, effective prevention demands accurate diagnosis of underlying causes.

The indications could be there in certain irregularities in the operational parameters which can be identified by the operation personnel.

Where as, the inspection and maintenance personnel can detect physical or structural degradation in boiler tubes, if they know where to look and what to look for.

To predict and prevent Boiler tube failures therefore, we need seamless interface between the operation, inspection and maintenance department personnel.

Our program offers a comprehensive understanding of boiler tube failures, encompassing boiler tube metallurgy, limitations, various failure mechanisms, root causes, and prevention strategies, supplemented by practical exposure through case study discussions.

Upon successful completion of this workshop the participant should be able to learn/ understand/ identify:

- The limitations of boiler metallurgies in their system
- Various undesirable conditions to which the Boiler tubes are exposed during normal and emergency operations.
- Importance of circulation and feed control in ensuring health of water wall tubes
- Operating conditions that lead to over heating of SH/ RH metals and their corrections
- The areas where preferential erosion is prevalent in the solid fired boiler system and best inspection

and maintenance practices to avoid failure

- The components which are likely to undergo mechanical, thermal, or corrosion fatigue and required precaution.
- Factors that are important to take care to avoid cold end corrosion in economizer and AH tubes
- Important chemical parameters in water and steam responsible for scale, corrosion and carryover.
- Precautions to be taken to prevent combined stress and corrosion failures like hydrogen embrittlement and FAC
- Given specific failure modes of a boiler, identify the cause and evaluate how this failure might be prevented and routine repair procedures that might be applied

The participants will also get the opportunity to critically analyze specific failure cases from their own system under the guidance of the faculty.

Special Feature:

After the training, participants will have access to previously recorded webinar sessions on the same topic through their dashboard for 7 days. This allows for continued engagement and the opportunity to review the lectures during this extended period.

Follow-up Session after Training:

After registration, each participant would be provided with a username and password to access the Dashboard for this training at our website www.steaminopps.com. From this dashboard the participants can download the soft copy of the reference study material and also interact with the faculty. The Dashboard will remain active for at least 10 days following the conclusion of the classroom training. This extended access period enhances opportunities for more in-depth discussions on the various topics covered in the course module.



Date:
29th, 30th & 31st May 2024

Time:
9.30 AM to 5.00 PM

Venue:
Hotel Grand Mercure
Vadodara

Non-Residential:
INR 20,000/- per candidate
+ 18% GST

Bank details for NEFT payment:
ICICI BANK ACCOUNT NO: 000305022932
IFSC CODE: ICIC00000003
CURRENT ACCOUNT NAME:
INDIA BOILER DOT COM

The Workshop registration fee for Non-residential participants includes:

- 3-days classroom training
- Course material
- Mid-session tea and coffee breaks and lunch
- 10 days post training Follow-up session through Virtual Classroom

Registration Procedure:

Nominating organization should send the nomination mail along with mobile number and e-mail address of their candidates to the undersigned.

CONTACT FOR REGISTRATION:
Programme Coordinator



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